Q16pro-4U

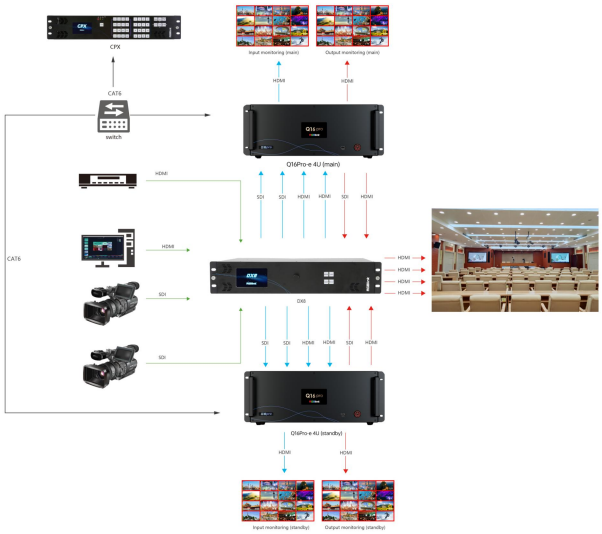
Broadcast-quality Hybrid Multiviewer Switcher



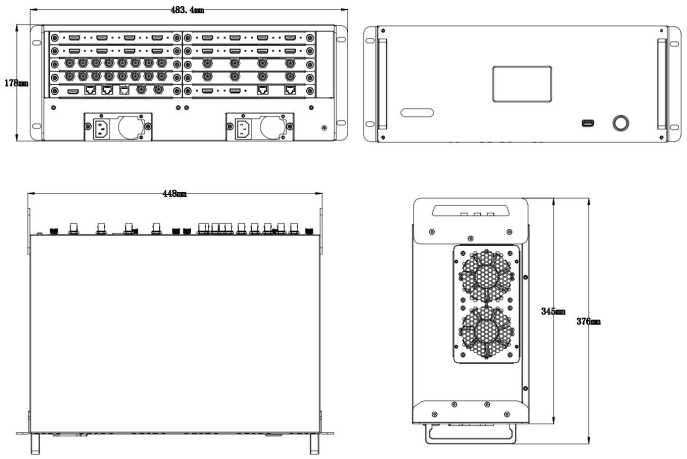
Key Features

- Support 4×1 horizontal splicing with a single output module;
  Supports 2×2, 4×2, and other layouts with multiple output modules (≥2).
- Each output module supports 8-layer cross-screen synchronous display
- Standard comms module: dual-network ports + 16-channel input preview
  - Dual Network Communication: one for local communication (LAN) and the other for remote control and monitoring (H.265)
  - PVW preview: Multi-screen HDMI output
- 4" HD touch screen for showing input& output status and menu operation
- 12 bit processing for HDMI 1.3 input and output, support RGB 4:4:4 color space
- De-interlacing processing, i signal output supported
- Synchronous switch from single input signal to multiple output channels
- Static and Dynamic OSD titles
- Seamless switch between inputs and outputs
- Dual HD multi-view output ports.Supporting input preview in splicing mode and selectable input or output preview in matrix mode, with up to 16 screens.
- Supports monitoring of up to 16 Dante audio input channels
- Dual-power design: 1 standard power supply, redundant power supply optional

Application



Dimensions



Order Codes

Product Code	Item
710-1016-02-0	Q16pro-4U（-e edition)
790-1016-01-0	Quad HDMI 1.3 Input Module
790-1016-02-0	Dual DP 1.2 & Dual HDMI 2.0 Input Module
790-1016-03-0	Quad 3G-SDI Input Module
790-1016-04-0	Single IP Input Module
790-1016-21-0	PVW (Preview) Module with Dante

Product Code	Item
790-1016-22-0	Quad HDMI 1.3 Output Module
790-1016-23-0	Communication Module with Preview
790-1016-24-0	Dual HDMI 2.0 Output Module
790-1016-25-0	Quad 3G-SDI Output Module
950-0014-01-0	250W Redundant Power Module

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Specification

Model		Q16pro-4U（-e edition)		
Specification		4U		
Input Slots		4		
Output Slots		5		
PVW Slot		1		
Communication Slot		1		
Physical	Net Weight	9kg		
	Packaged Weight	13kg		
	Net Dimension	483.4mm x 376mm x 178mm		
	Packaged Dimension	630mm x 585mm x 295mm		
Connectors	Input	*Optional*	DP 1.2 | HDMI 2.0	2×DP | 2×HDMI-A
			HDMI 1.3	4×HDMI-A
			SDI (SD/HD/3G)	8×BNC (4 IN | 4 LOOP)
			IP	1×RJ45
	Output	*Optional*	HDMI 2.0	2×HDMI-A
			HDMI 1.3	4×HDMI-A
			SDI (SD/HD/3G)	4×BNC
	Communication	*Standard with*	PVW	1xHDMI-A
			H.265	1xRJ45
			LAN	1xRJ45
			RS232	1xRJ11
			GENLOCK	2xBNC (1 IN | 1 LOOP)
	PVW	*Optional*	HDMI	2×HDMI-A
			Dante	1×RJ45
			Dante Backup	1×RJ45
Performance	Input Resolutions	*Automatic recognition*		
		DP 1.2 | HDMI 2.0		
		SMPTE	720p@50/60 | 1080p@25/30/50/60 | 2160p@30	
		VESA	800×600@60 | 1024×768@60 | 1280×720@25/30/50/60 | 1280×800@60 | 1280×1024@60 | 1360×768@60 | 1440×900@60 | 1680×1050@60 | 1920×1080@25/30/50/59.94/60 | 3840×2160@30/60	
		HDMI 1.3		
		SMPTE	720p@50/60 | 1080p@25/30/50/60	
		VESA	800×600@60 | 1024×768@60 | 1280×720@25/30/50/60 | 1280×800@60 | 1280×1024@60 | 1360×768@60 | 1440×900@60 | 1680×1050@60 | 1920×1080@25/30/50/59.94/60	
		SDI (SD/HD/3G)		
		SMPTE	720p@50/60 | 1080p@23.98/29.97/25/30/50/59.94/60 | 1080i@50/59.94/60	
	Output Resolutions	*Select from below or configure customized*		
		HDMI 2.0		
		SMPTE	720p@50/60 | 1080p@25/30/50/60	
		VESA	1024×768@60 | 1280×1024@60 | 1920×1080@25/30/50/59.94/60 | 3840×2160@30/60	
		HDMI 1.3		
		SMPTE	720p@50/60 | 1080p@25/30/50/60	
		VESA	1024×768@60 | 1280×1024@60 | 1920×1080@25/30/50/59.94/60	
		SDI (SD/HD/3G)		
		SMPTE	720p@50/60 | 1080p@23.98/29.97/25/30/50/59.94/60 | 1080i@50/59.94/60	
	Supported Standards	SDI	SD/HD/3G	H.264 H.265
		HDMI	2.0	
Power	Input Voltage	AC 100V-240V, 50/60Hz		
Operation	Temperature	-5℃~45℃		
Environment	Humidity	15%~85%		
Storage	Temperature	-10℃~70℃		
Environment	Humidity	0%~95%		

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Input

Item		Quad HDMI 1.3 Input Module							
Iamge									
Connnector	Input	HDMI				HDMI-A×4			
Performance	Resolution	720p@50/60 | 1080i@50/59.94/ 60 | 1080p@25/30/50/59.94/ 60							
		800×600@60 | 1024×768@60 |1280×720@25 /30/50/60 | 1280×800@60 |1280×1024@60 | 1360×768@60 | 1440×900@60 | 1680×1050@60 | 1920×1080@25/30/50/59.94/60							
	Standard	HDMI 1.3/HDCP 1.X							
	Sub-Sampling	RGB	RGB	RGB	YUV 444	YUV 444	YUV 444	YUV 422	YUV 422
	bit depth	8-bit	10-bit	12-bit	8-bit	10-bit	12-bit	8-bit	12-bit
	Maximum Resolution	1920×1080@60	1920×1080@30	1920×1080@30	1920×1080@60	1920×1080@30	1920×1080@30	1920×1080@60	1920×1080@30
	Others	Transmission Distance				HDMI 1080p60Hz=15m			
		Power Comsumption				12W			

Item		Quad 3G -SDI Input Module	
Iamge			
Connnector	Input	SDI	BNC×8 (4 IN | 4 LOOP)
Performance	Resolution	720p@50/59.94/60 | 1080i@50/59.94/60 | 1080p@23.98/25/29.97/30/50/59.94/60	
	Standard	HD-SDI (SMPTE 292M) / 3G-SDI (SMPTE 425M, SMPTE 424M, SMPTE 292M, SMPTE 259M-C)	
	Video Bandwidth	2.97Gbps	
	Sub-Sampling	YUV 422	
	bit depth	10-bit	
	MaximumResolution	1920×1080@60	
	Others	Transmission Distance	SDI 720p60Hz=100m
		Impedence	75Ω
		Power Comsumption	15.5W

Item		4K60 Input Module (Choose one from the four input options.)	
Iamge			
Connnector	Input	DP 1.2	DisplayPort×2
		HDMI 2.0	HDMI-A×2
Performance	Resolution	640×480@60Hz | 800×600@60Hz | 1024x768@60Hz |1280x768@60Hz |1280x800@60Hz |1280x1024@60Hz | 1360×768@60Hz |1400×1050@60Hz |	
		1600×1200@60Hz |1920×1080@60Hz | 1920×1200@60Hz | 1920x1200p@60 | 2048x1152p@60 | 2560x1440p@60 | 2560x1600p@60 | 3840x2160p@25/30/50/60	
	Standard	HDMI 2.0/HDCP 2.2	
	Video Bandwidth	18Gbps	
	Sub-Sampling	RGB	
	bit depth	8-bit	
	MaximumResolution	3840×2160@60	
	Others	Transmission Distance	4K×2K@60Hz=5m/1080p60Hz=15m

Item		IP Input Module	
Iamge			
Connnector	Input	IP Stream	RJ45×1
	Upgrade		USB-A×1
Performance	Decoding Capbility	1920x1080@30Hz	16
	(input)	1920x1080@60Hz | 3840x2160@30Hz	4
		3840x2160@60Hz	1
	Decoding Resolution	960x540@60	16
	(output)	1920x1080@60	4
		3840x2160@60	1
	Protocal	RTSP | RTMP | NDI | SRT	

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Output Module

Item		Quad HDMI 1.3 Output Module			
Iamge					
Connnector	Output	HDMI			HDMI-A×4
Performance	Resolution	720p@50/60 | 1080i@50/59.94/ 60 | 1080p@23.98/25/29.97/30/50/59.94/ 60			
	Standard	HDMI 1.3/HDCP 1.X			
	Sub-Sampling	RGB	RGB	RGB	
	bit depth	8-bit	10-bit	12-bit	
	Maximum Resolution	1920×1080@60	1920×1080@30	1920×1080@30	
	Others	Transmission Distance			HDMI 1080p60Hz=5m
		Power Comsumption			16.5W
		Scale			Support
		logo			Support
		Layer numbers			8

Item		Quad 3G -SDI Output Module	
Iamge			
Connnector	Output	SDI	BNC×8 (4 IN | 4 LOOP)
Performance	Resolution	720p@50/59.94/60 | 1080i@50/59.94/60 | 1080p@23.98/25/29.97/30/50/59.94/60	
	Standard	HD-SDI (SMPTE 292M) / 3G-SDI (SMPTE 425M, SMPTE 424M, SMPTE 292M, SMPTE 259M-C)	
	Video Bandwidth	2.97Gbps	
	Sub-Sampling	YUV 422	
	bit depth	10-bit	
	Maximum Resolution	1920×1080@60	
	Others	Transmission Distance	SDI 1080p60Hz=100m
		Impedance	75Ω
		Power Comsumption	18.5W
		Scale	Support
		logo	Support
		Layer numbers	8

Item		Dual HDMI 2.0 Output Module	
Iamge			
Connnector	Output	HDMI 2.0	HDMI-A×2
Performance	Resolution	640×480@60Hz | 800×600@60Hz | 1024x768@60Hz |1280x768@60Hz |1280x800@60Hz |1280x1024@60Hz | 1360×768@60Hz |1400×1050@60Hz | 1600×1200@60Hz |1920×1080@60Hz | 1920×1200@60Hz | 1920x1200p@60 | 2048x1152p@60 | 2560x1440p@60 | 2560x1600p@60 | 3840x2160p@25/30/50/60	
	Standard	HDMI 2.0/HDCP 2.2	
	Bandwidth	18Gbps	
	Sub-Sampling	RGB	
	bit depth	8-bit	
	Maximum Resolution	3840×2160@60	
	Others	Transmission Distance	4K×2K@60Hz=5m/1080p60Hz=15m
		Scale	Support
		logo	Support
		Layer numbers	8

Item		PVW (Preview) Module with Dante			
Iamge					
Connnector	Output	HDMI			HDMI-A×2
	Input	Dante			RJ45×2 (1 Main +1 Backup）
Performance	Multiview	Input			Support
		Output			Support
		Input+Output			Support
		Dante Audio			Support
	Multiview mode	16-screen			
		9-screen			
		4-screen			
		2+4-screen			
		2+8-screen			Support input preview only
	Protocol	Dante			

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Communication

Item		Communication Module with (PVW) Preview	
Iamge			
Connnector	Preview	PVW	1×HDMI-A
		H.265	1×RJ45
	Control	LAN	1×RJ45
		RS232	1×RJ11
		Genlock	2×BNC (1 In 1 Loop)
Performance	Resolution (PVW-HDMI）	1920×1080@60Hz	
	Preview (via HDMI)	Input	Support
		Output	No
		Input+Output	No
	Preview （via XPOSE）	Layer	Support
		Input	Support
		Scene	Support
		Expand Preview	Support
	Others	OSD	Support

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